National Institute of Technical Teachers' Training and Research, Bhopal

PROGRAMME BRIEF

- **Title of the Programme**: Clean Energy for a Greener Future
- **Programme code:** G-20-3
- **Programme duration:** 17-21 July 2023
- **Venue: NITTTR Bhopal**

1. **Rationale:**

   India will assume the G20 Presidency from the 1st of December this year from Indonesia and will convene the G20 Leaders' Summit for the first time in the country in 2023. A nation deeply committed to democracy and multilateralism, India's G20 Presidency would be a watershed moment in her history as it seeks to play an important role by finding pragmatic global solutions for the wellbeing of all, and in doing so, manifest the true spirit of 'Vasudhaiva Kutumbakam' or the 'World is One Family.

   The world is rapidly transitioning towards clean energy as a means of reducing greenhouse gas emissions and combating climate change. This short-term training programme on Clean Energy intends to provide teachers the overview of the different forms of clean energy, their applications, and their potential for a greener future, information, and abilities they need to support sustainable lifestyles and clean energy technologies. This training programme will help to create a better future by emphasising cleaner energy solutions and by encouraging participants to apply these ideas to their teaching and research practises.

2. **Programme Outcomes:**
   1. Explain the principles and technologies used in clean energy systems.
   2. Evaluate the feasibility of different clean energy systems based on local conditions and requirements.
   3. Develop strategies for integrating clean energy into existing energy systems.
   4. Collaborate with experts in the field to develop innovative solutions for clean energy-related challenges.
   5. Contribute to the global effort towards a greener future.
   6. Integration of clean energy concepts into teaching methodologies and curriculum development.

3. **Programme Content:**

   Introduction to Clean Energy and its importance, Overview of different clean energy technologies. Policy and regulatory framework for clean energy, case studies on successful clean energy implementation, clean energy integration in curriculum Development, designing clean energy research projects for students, and community engagement activities, climate change.

4. **Instructional Strategy:**

   The training strategies would be Interactive Lectures, Input-cum-Discussions, Assignments, Case study, Syndicate work and Presentation etc.

5. **Target Group:** Faculty of All disciplines

6. **Coordinator & Faculty details:**

7. **Name and Designation:** Dr. Bashirulla Shaik, Assistant Professor

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8. **Tentative Programme Schedule:**

Day	**Session 1**	**Session 2**	**Lunch**	**Session 3**	**Session 4**
	10.00 AM-11.30 AM	11.45 AM -13.15 PM	13.30 PM - 2.00 PM	2.15 PM - 3.45 PM	4.00 PM - 5.30 PM
Day-1 Monday	Registration, & Inauguration, Program Overview, Expectations from the Participants	Overview on G-20, Sectors, and activities	Lunch	Clean Energy and its importance	Task-1
Day-2 Tuesday	Climate Change, Pollution, and Resource Depletion	Climate Change, Pollution, and Resource Depletion		Task on Climate Change, Pollution, and Resource Depletion	Task-2
Day-3 Wednesday	Clean Energy Technologies	Case studies on Successful Clean Energy Implementation		Policy and framework for clean energy Implementation	Task-3
Day-4 Thursday	Clean Energy Integration in Curriculum Development	Task-4		Designing Clean Energy Research Projects for Students	Task-5
Day-5 Friday	Opportunities and challenges in Clean Energy	Presentations of Lesson Plans and Feedback		Achievement test, Summarisation of Learning.	Feedback & Valedictory